SEO

Search Engine Optimization

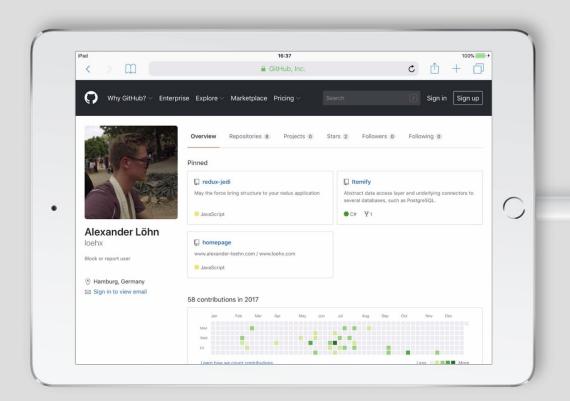
Introduction

What is SEO?

SEO ♥ HTML

#GoodToKnow

Review & Feedback



About me ...

Teaching (just started) Backend Development Frontend Development Processing Data Websites HTML **CSS** Storing Data Webapps Desktop Applications **JavaScript SEO** Hugo C# .NET HTML Visual Basic .NET **CSS** MySQL JavaScript Angular.js (v1) **MSSQL** React Vue.js

Introduction

What is SEO? <- let's go!

SEO ♥ HTML

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Review & Feedback

What is SEO?

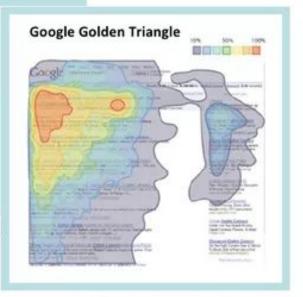
- ★ Methods and Standards
- ★ Improve Ranking
- ★ Get More People on the Site -> generate traffic!



Google Eye Tracking Study

Organic Search Results Visibility	Pay Per Click Visibility	
Viewed Position 1 – 100% Position 2 – 100% Position 3 – 100% Position 4 – 85% Position 5 – 60% Position 6 – 50% Position 7 – 50% Position 8 – 30% Position 9 – 30% Position 10 – 20%	Viewed 1 - 50% 2 - 40% 3 - 30% 4 - 20% 5 - 10% 6 - 10% 7 - 10% 8 - 10%	Google

Source: Google Search Engine Results Eye Tracking Study, 2005. Enquiro Research





How does the Ranking Work?

Popularity (Traffic)

The right keyword on the right spot (Content Management)

Web integration how do / fit in? (Links + Backlinks)

Technical criteria:

Machine Readability → for the love of BOTS ♡

Completeness -> SEO requirements

Machine Readability

- * Simple and clean structure <- throughout the website
- * Sitemap <- more on that later!
- ★ Intuitive URLs
 - X /seo?article=8473948
 - √ /articles/seo/golden-triangle
 - ✓ /articles/seo/Golden-Triangle/8473948 AMAZON EXAMPLE →

Completeness

- ★ Title and description for all pages
- * favicon exists!
- * No 404 and no broken links!
- ★ Web accessibility ARIA standard
- ★ and more ...

Introduction

What is SEO?

→ SEO ♥ HTML <-

#GoodToKnow

Review & Feedback

Crawling

Headings

Meta Information

Navigation

Image "Alt" Property

Aria Label Property

Crawling <- start

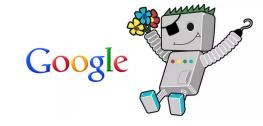
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Aria Label Property



Bot?

Robot = (Web) Crawler = Spider

My job is to ...

Open a website

 $\hat{\Gamma}$

Find all links

 $\hat{\Gamma}$

Open them

 $\hat{\Gamma}$

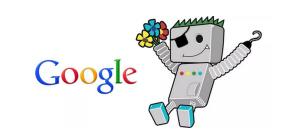
Find all links

 $\hat{\Gamma}$

Open them

 $\hat{\mathbf{T}}$

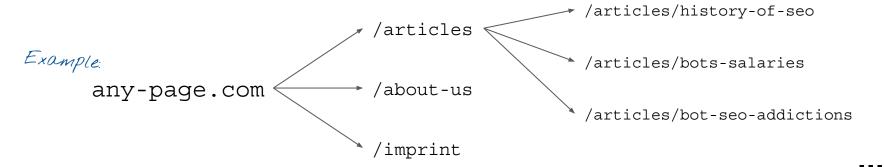
• • •

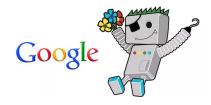


A **Web crawler**, sometimes called a spider or spiderbot and often shortened to <u>crawler</u>, is an Internet bot that systematically browses the World Wide Web, typically for the purpose of Web indexing (web spidering).

(Source:

https://en.wikipedia.org/wiki/Web_crawler)







Was wir können

Gestaltung

Design spielt für Websites und Intranets eine zentrale Rolle. ...

Konzeption

Welche Anforderungen werden an die neue Website, ...

Entwicklung

Hier kommen wir her, hier fühlen wir uns wohl. Bei Implementierung,

..

https://www.elbformat.de/

4600 bytes (HTML) vs 740 (Text) bytes

Crawling

Headings <- next

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Headings

<h1>Page Title</h1>

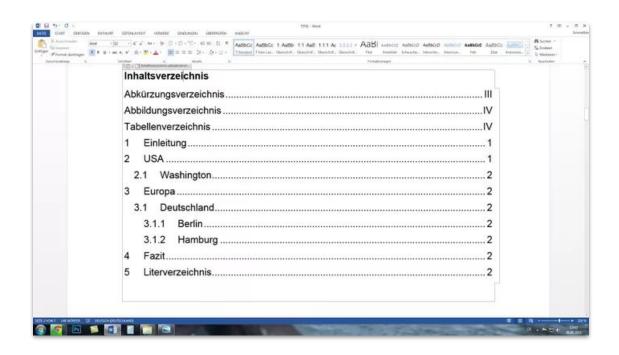
<h2>Section</h2>

<h3>Article</h3>

Text

<h4>Chapter</h4>

Text



Headings

Text

<h1>Page Title</h1>
<h2>Article & Page Title</h1>
<h2>Article</h2>
Text
<h3>Teaser</h3>
Text
<h3>Teaser

IG METALL MITGLIEDER AKTIVE PRESSE METALLZEITUNG KAMPAGNEN



TARIF IM BETRIEB POLITIK & GESELLSCHAFT

MITMACHEN

SERVICE

ÜBER UNS

Mitglied werden →

Politik & Gesellschaft > Zukunft der Arbeit > Digitalisierung

Anmelden



Headings -> Bootstrap

```
<h1 class="h2">Page Title</h1>
<h2 class="h3">Sub Title</h2>
Text
<h2 semantic with h2 styling
```

Crawling

Headings

Meta Information <-

Navigation

Image "Alt" Property

Aria Label Property

```
<?>
    <title>Invisible Title of the Website</title>
</?>
<html>
    <head>
         <title> ... </title>
    </head>
    <body> ... </body>
</html>
```

xStarters – deine Plattform für digitale soziale Ideen

https://xstarters.digital

Nimm teil an der xStarters Challenge für digital Natives von 14 bis 19 Jahren. Entwickelt im Team eine digitale soziale Idee, die unsere Welt ein wenig besser macht!

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The Open Graph protocol



Open Graph is a technology first introduced by Facebook in 2010 that allows integration between Facebook and its user data and a website.

(Source: https://www.computerhope.com/jargon/o/open-graph.htm)

EXAMPLE ->

```
<meta property="og:locale" content="de_DE">
<meta property="og:type" content="article">
<meta property="og:title" content="xStarters - deine Plattform für digitale soziale Ideen">
<meta property="og:description" content="Nimm teil an der xStarters Challenge für digital
Natives von 14 bis 19 Jahren. Entwickelt im Team eine digitale soziale Idee, die unsere Welt
ein wenig besser macht!">
<meta property="og:image" content="/uploads/media/720x/07/17-preise-intro.jpg?v=1-0">
<meta property="og:site_name" content="www.xstarters.digital">
```

Crawling

Headings

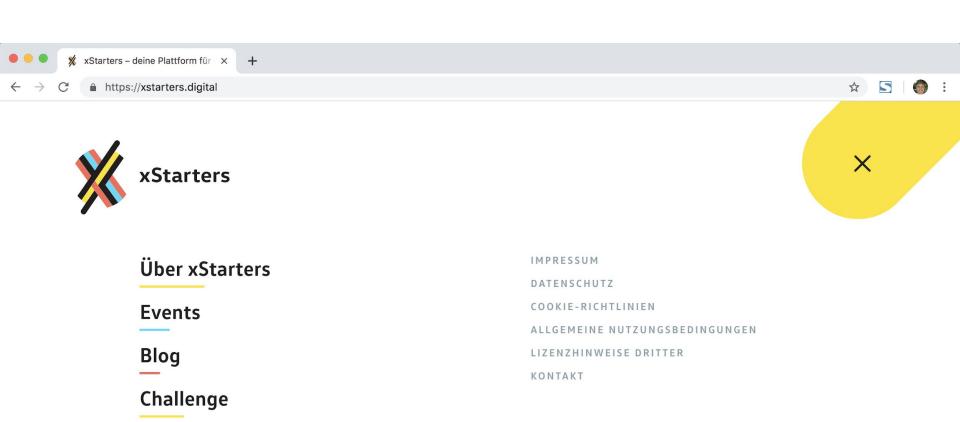
Meta Information

Navigation <- here

Image "Alt" Property

Aria Label Property

Lehrerinnen & Lehrer



Crawling

Headings

Meta Information

Navigation

Image "Alt" Property <- here

Aria Label Property

Image "Alt" Property

IMAGE SEO



Google ->

Crawling

Headings

Meta Information

Navigation

Image "Alt" Property

Aria Label Property <- here

WAI-ARIA

(Web Accessibility Initiative - Accessible Rich Internet Applications)

Crawling

Headings

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Exercise <- let's go

Exercise 1

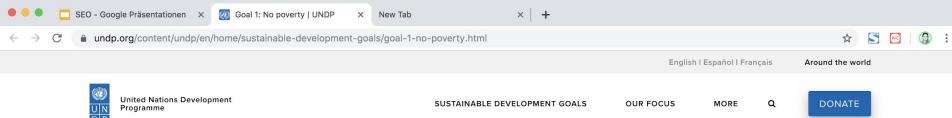


getlorem.com
(generate placeholder text)



Exercise 11



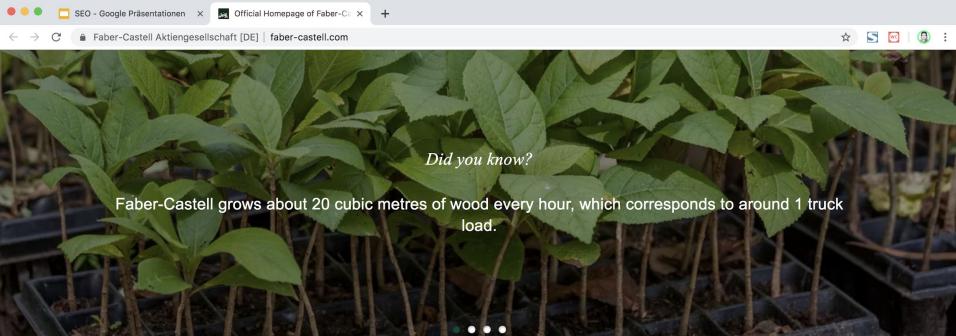


Goals in action



Exercise III





Follow us on

Tips, tutorials and inspiration in social media











Store Locator

Find a store close to you

tore Locator

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#GoodToKnow <- we're here!

Review & Feedback

/sitemap.xml <-

/robots.txt

Recrawl

Google Trends



The **Sitemaps protocol** allows a webmaster to inform search engines about URLs on a website that are available for crawling

(Source: https://en.wikipedia.org/wiki/Sitemaps)

Examples!

/sitemap.xml

/robots.txt <-

Recrawl

Google Trends





The robots exclusion standard, ... is a standard used by websites to communicate with web crawlers and other web robots.

(Source: https://en.wikipedia.org/wiki/Robot s_exclusion_standard)

Example ->

/sitemap.xml

/robots.txt

Recrawl <-

Google Trends

Ask Google to recrawl your URLs

If you've recently added or made changes to a page on your site, you can ask Google to (re)index it using any of the methods listed here.

General guidelines

- Crawling can take anywhere from a few days to a few weeks. Be patient and monitor progress using either the Index Status report or the URL Inspection tool.
- · All methods described here have about the same response time.
- · There is a quota for submitting individual URLs.
- · Requesting a recrawl multiple times for the same URL or sitemap won't get it crawled any faster.

Crawl request methods

Use the URL Inspection tool



Submit a sitemap

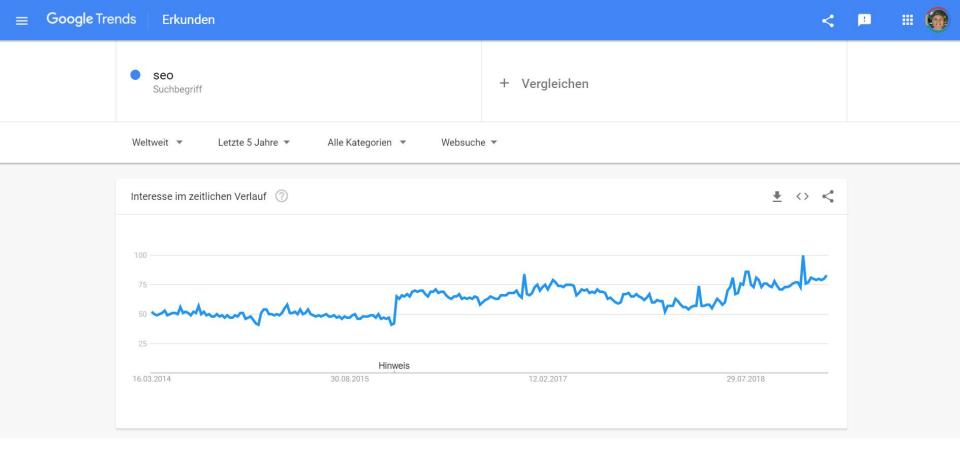


/sitemap.xml

/robots.txt

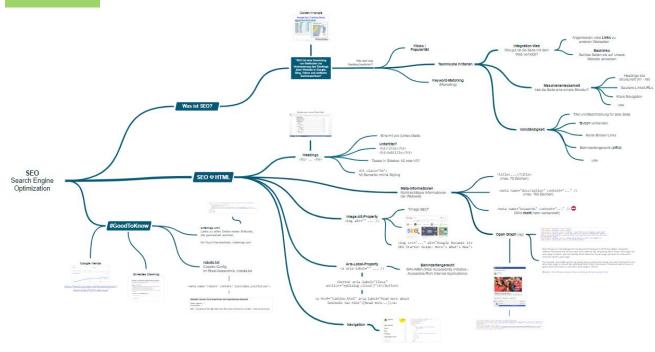
Recrawl

Google Trends <-



Googles point of view





visit ->



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Thank you!



















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